What is claimed is:

- 1. A display comprising:
- a housing having a first board; and

a plurality of modules each having a plurality of electron emitters arrayed on a second board;

said modules being arrayed on said first board;

at least said modules being electrically connected to each other;

said modules being sealed in vacuum in said housing.

- 2. A display according to claim 1, wherein said housing has a transparent plate facing said first board, said transparent plate supporting, on a surface thereof facing said first board, an electrode for producing an electric field between the electrode and said electron emitters, and a phosphor disposed on said electrode, and wherein electrons emitted from said electron emitters impinge on said phosphor to excite the phosphor for thereby emitting light therefrom.
- 3. A display according to claim 1, wherein each of said electron emitters comprises:

an emitter section made of a dielectric material; and a first electrode and a second electrode which are disposed in contact with said emitter section;

and wherein when a drive voltage is applied between said first electrode and said second electrode, at least a

25

5

10

15

20

portion of said emitter section has a polarization reversed or changed to emit electrons therefrom.

4. A display according to claim 3, wherein said first electrode and said second electrode are disposed in contact with a principal surface of said emitter section, with a slit defined between said first electrode and said second electrode, said emitter section being partly exposed through said slit.

10

5

5. A display according to claim 3, wherein said first electrode is disposed on a first surface of said emitter section, and said second electrode is disposed on a second surface of said emitter section.

15

6. A display according to claim 3, wherein said emitter section is made of at least one of a piezoelectric material, an electrostrictive material, or an anti-ferroelectric material.

20

25

- 7. A display comprising:
- a housing having a first board; and
- a plurality of chips each having an electron emitter; said chips being arrayed on said first board;
- at least said chips being electrically connected to each other;

said chips being sealed in vacuum in said housing.

8. A display according to claim 7, wherein said housing has a transparent plate facing said first board, said transparent plate supporting, on a surface thereof facing said first board, an electrode for producing an electric field between the electrode and said electron emitters, and a phosphor disposed on said electrode, and wherein electrons emitted from said electron emitters impinge on said phosphor to excite the phosphor for thereby emitting light therefrom.

10

5

9. A display according to claim 7, wherein each of said electron emitters comprises:

an emitter section made of a dielectric material; and a first electrode and a second electrode which are disposed in contact with said emitter section;

15

and wherein when a drive voltage is applied between said first electrode and said second electrode, at least a portion of said emitter section has a polarization reversed or changed to emit electrons therefrom.

20

10. A display according to claim 9, wherein said first electrode and said second electrode are disposed in contact with a principal surface of said emitter section, with a slit defined between said first electrode and said second electrode, said emitter section being partly exposed through said slit.

25

11. A display according to claim 9, wherein said first

electrode is disposed on a first surface of said emitter section, and said second electrode is disposed on a second surface of said emitter section.

5

12. A display according to claim 9, wherein said emitter section is made of at least one of a piezoelectric material, an electrostrictive material, or an antiferroelectric material.

10

15

20

25

- 13. A display comprising:
- a housing having a first board; and
- a plurality of electron emitters directly formed as a film on said first board;

said electron emitters being sealed in vacuum in said housing.

- 14. A display according to claim 13, wherein said housing has a transparent plate facing said first board, said transparent plate supporting, on a surface thereof facing said first board, an electrode for producing an electric field between the electrode and said electron emitters, and a phosphor disposed on said electrode, and wherein electrons emitted from said electron emitters impinge on said phosphor to excite the phosphor for thereby emitting light therefrom.
 - 15. A display according to claim 14, wherein each of

said electron emitters comprises:

5

10

15

20

25

an emitter section made of a dielectric material; and a first electrode and a second electrode which are disposed in contact with said emitter section;

and wherein when a drive voltage is applied between said first electrode and said second electrode, at least a portion of said emitter section has a polarization reversed or changed to emit electrons therefrom.

- 16. A display according to claim 14, wherein said first electrode and said second electrode are disposed in contact with a principal surface of said emitter section, with a slit defined between said first electrode and said second electrode, said emitter section being partly exposed through said slit.
 - 17. A display according to claim 14, wherein said first electrode is disposed on a first surface of said emitter section, and said second electrode is disposed on a second surface of said emitter section.
 - 18. A display according to claim 14, wherein said emitter section is made of at least one of a piezoelectric material, an electrostrictive material, or an antiferroelectric material.

19. A display comprising:

a housing having a first board; and

a plurality of vacuum-sealed modules each having a plurality of electron emitters arrayed on a second board and sealed in vacuum;

said vacuum-sealed modules being arrayed on said first
board;

at least said vacuum-sealed modules being electrically connected to each other.

10

15

5

20. A display according to claim 19, wherein each of said vacuum-sealed modules has a transparent plate facing said second board, said transparent plate supporting, on a surface thereof facing said second board, an electrode for producing an electric field between the electrode and said electron emitters, and a phosphor disposed on said electrode, and wherein electrons emitted from said electron emitters impinge on said phosphor to excite the phosphor for thereby emitting light therefrom.

20

21. A display according to claim 19, wherein each of said electron emitters comprises:

an emitter section made of a dielectric material; and a first electrode and a second electrode which are disposed in contact with said emitter section;

25

and wherein when a drive voltage is applied between said first electrode and said second electrode, at least a portion of said emitter section has a polarization reversed

or changed to emit electrons therefrom.

5

15

- 22. A display according to claim 21, wherein said first electrode and said second electrode are disposed in contact with a principal surface of said emitter section, with a slit defined between said first electrode and said second electrode, said emitter section being partly exposed through said slit.
- 23. A display according to claim 21, wherein said first electrode is disposed on a first surface of said emitter section, and said second electrode is disposed on a second surface of said emitter section.
 - 24. A display according to claim 21, wherein said emitter section is made of at least one of a piezoelectric material, an electrostrictive material, or an antiferroelectric material.